

Документы

Дата экспорта: 17 Jan 2018

Поиск: TITLE-ABS-KEY(Quality assessment of public-private partnersh...

- 1) Isaev, V.G., Astasheva, N.P., Jidkova, E.A.
[Quality assessment of public-private partnership in the near-earth space surveillance programs in Russia](#)
(2017) Proceedings of the 2017 International Conference "Quality Management, Transport and Information Security, Information Technologies", IT and QM and IS 2017, статья № 8085748, pp. 9-11.
DOI: 10.1109/ITMQIS.2017.8085748

Тип документа: Conference Paper

Источник: Scopus

Поиск: TITLE-ABS-KEY(Quality assessment of public-private partnership in the near-earth space surveillance programs in Russia)



**2017 International
Conference
«Quality Management,
Transport and
Information Security,
Information Technologies»**

IT&QM&IS



**2017 International Conference
«Quality Management,
Transport and Information Security,
Information Technologies»**

IT&QM&IS

ISBN 978-1-5386-0703-9

**Proceedings
of the 2017 International Conference
"Quality Management, Transport and Information Security,
Information Technologies"
(IT&QM&IS)**

September, 24-30, 2017

**St. Petersburg
Russia
2017**

Preface

The IEEE Russia North West Section, Saint Petersburg Electrotechnical University "LETI", and the European Centre for Quality (Moscow) are pleased to present the Proceedings of the 2017 International Conference "Quality Management, Transport and Information Security, Information Technologies" (IT&QM&IS). The Conference was held in St. Petersburg, Russia on September 24–30, 2017, and it was proudly hosted by Saint Petersburg Electrotechnical University "LETI". The Organizing Committee believes and trusts that we have been true to the spirit of collegiality that members of IEEE value whilst also maintaining a high standard as we reviewed papers, provided feedback and now present a strong body of published work in this collection of proceedings.

The themes for this year's conference were chosen as a means of bringing together academics and industrialists, engineering and management research, manufacturing and teaching, and providing a basis for discussion of issues arising across the engineering and business community in relation to Quality Management, Information Technologies, Transport and Information Security aimed at developing engineers and managers for the future. The aim in these proceedings has been to present high quality work in an accessible medium, for use in a wide community of academics, engineers, managers, and industrialists, the community united by the key words Science, Education, Innovations in engineering. To achieve this aim, all abstracts were blind reviewed, and full papers submitted for publication in this journal of proceedings were subjected to a rigorous reviewing process.

Prof. Vladimir N. Azarov
Co-Chair of the Conference Organizing Committee

Copyright

Copyright for all refereed papers published in the Proceedings is owned by the IEEE.

Publishing Details

Proceedings Edited by S. Shaposhnikov 2017 St. Petersburg, Russia: Saint Petersburg Electrotechnical University "LETI"

Prof. Popov str. 5, 197376, Saint Petersburg, Russia

Telephone: +7 812 234 28 91

Fax: +7 812 234 28 91

ISBN 978-1-5386-0703-9

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form by any means, electronic or otherwise, without the written permission of the IEEE.

978-1-5386-0703-9/17/\$31.00 ©2017 IEEE

Quality Assessment of Public-Private Partnership in the Near-Earth Space Surveillance Programs in Russia

V.G. Isaev, N.P. Astasheva, E.A. Jidkova
State Educational Institution of Higher Education Moscow Region "University of Technology"
Korolev, Russia

Abstract—The article presents a study of the mechanism of public-private partnership in the Russian Federation. It is shown that the use of such a mechanism in the study of near-Earth space is an urgent task for the Russian Federation and that such mechanism should be adopted in the near future. It is noted that public-private partnership will attract significant public scientific and economic resources in addition to state resources. It is shown that public-private partnership in the near-Earth space surveillance programs is at the initial stage in Russia. However, there are serious prerequisites for its successful development.

Keyword: near-Earth space launch vehicle, launch

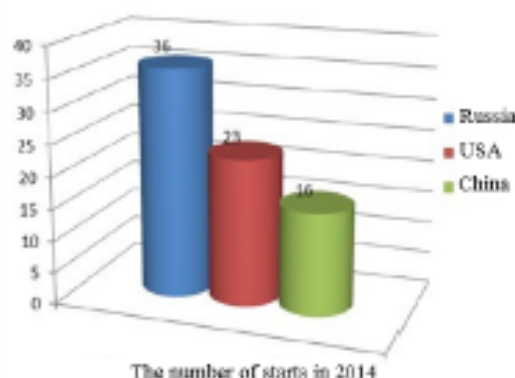
There is nothing new in the idea of attracting of the economic and scientific potential to the near-Earth space surveillance programs through public-private partnerships. Many authors note that in addition to budget expenditures such partnerships can attract additional significant financial resources of private companies and corporations. In exchange for new technologies private companies can invest in research and development activities (and execute strict spending control). Private companies can take part in the creation of elements of the ground-based space infrastructure; can fund exploratory research, test laboratories, development of hardware-software solutions in unclassified research areas, purchase the necessary bench equipment, manufacture various units and systems of carrier space vehicle and spacecraft and provide services of national economic importance [8, 1]. At the same time when choosing the areas of interaction between the state and private business and developing the quality requirements of such interaction, it is appropriate to use the system approach and cost-effectiveness criterion.

However, the use of this mechanism in the research of near-Earth space is an urgent task for the Russian Federation.

One of the main reasons for adopting such mechanism is that Russia has been developing under the sanctions for several years. The sanctions have a negative impact on the development of Russian space programs. Russia has been losing orders in space industry and the public funding is not enough for the large-scale space programs.

The world's leading countries' dynamics of space launches is presented in Figure 1. Analysis of the data in Figure 1 shows that Russia has lost leadership in the field of space launches in

recent years. The number of launches of Russian launch vehicles is constantly decreasing and in 2016 Russia was only the third after the USA and China. The similar situation was in 2003. The USA carried out 23 launches and Russia carried out 21 launches. Moreover, by June 2017 Russia carried only 2 out of 11 planned orbital launches (for the rest launches there are planned dates). Out of 11 launches only 1 is with foreign payload (geostationary communication satellite EchoStar 21 which launch was postponed from 2016) in 2017. In 2016 in the interests of foreign states there were 4 launches (4 satellites) from the Plesetsk and Baikonur cosmodromes and 2 launches (3 satellites) from the Guiana Space Centre (using Russian Soyuz rockets). In 2015 in the interests of foreign states there were 5 launches (5 satellites) from the Plesetsk and Baikonur cosmodromes and 3 launches (6 satellites) from the Guiana Space Centre and 42 foreign satellites were launched in 2014. Contracts in space industry are transferred to Russia's competitors. In addition, the United States, the EU and China are developing new launch vehicles and cargo spacecraft for the delivery of components and cargo to the ISS. There is no doubt that after a while Russia will take back the leading role[2] but without attracting investments addition to public, this can take quite a long time.



Contents

Preface	2
Social and Public-Private Partnership	
<i>Subjective Wellbeing of Residents as an Indicator of the Social Partnership Effectiveness in Urban Governance</i> <i>Bagirova A.P., Notman O.V., Bagirov A.D., Goryainov S.V.</i>	4
<i>Quality Assessment of Public-Private Partnership in the Near-Earth Space Surveillance Programs in Russia</i> <i>Isaev V.G., Astasheva N.P., Jidkova E.A.</i>	8
<i>Trends and Social Partnerships in Education</i> <i>Maryakova E.V.</i>	11
<i>Social Engineering and Digital Technologies for the Security of the Social Capital development</i> <i>Pokrovskaya N.N., Shtsarenko S.O.</i>	15
<i>Public-Private Partnership as a Promise Form of Investments</i> <i>Savchuk R.R.</i>	19
<i>Improvement of Innovative-Investment Potential of the Problematic Regions Economy on the Basis of Activation of Institutes of Development in Process of Improvement of the Mechanism of State-Private Partnership</i> <i>Shtidov A.Kh., Altudov Yu.K., Yakubtlova Z.M., Bozheva A.M.</i>	22
<i>Systematic Approach and Advanced Marketing in Public-Private Partnerships</i> <i>Vasilenko Marina A., Dvuzdov N.A., Tagiltseva Ju.A., Kuzina E.L., Kuzina M.A.</i>	26
<i>The Functioning of Small Innovative Enterprises Created in Partnership with State Universities and Natural Persons</i> <i>Zakharov S.V., Bovkun A.S., Vasiliev K.O.</i>	31
Navigation and Information Systems. Global Navigation Satellite System (GLONASS)	
<i>The Quality Characteristics Comparison of Coordinates and Time Estimations Using the PPP Online Services</i> <i>Mikhailov V.N., Gatvoronski D.V., Khachatryan A.B.</i>	34
<i>Development of Program-Algorithmic Support for Estimation of the Influence Emergencies in Designing Residential and Industrial Territories on the Basis of Geoinformation Systems</i> <i>Zhdanova E.N., Minina A.A.</i>	38
Management of Transport and Information Security Systems. Computer Security	
<i>Digital Regulatory Tools for Entrepreneurial and Creative Behavior in the Knowledge Economy</i> <i>Asanov I.F., Pokrovskaya N.N.</i>	42
<i>Risks and Threats in the Processes of Transport Security</i> <i>Azarov V.N., Artemenko A.E., Kabanov A.S., Morgunov M.Yu.</i>	46
<i>Electromagnetic Safety: Potential for Development</i> <i>Bashkova D.Y., Belash O.Y., Muravyev A.V., Ryzhov N.G., Shestopalov M.Y.</i>	54
<i>Model for Assessing Transport Security in the Region (Based on the Example of the Sverdlovsk Region)</i> <i>Blagintin V.A., Khudyakova T.S., Vlasova N.Yu.</i>	60
<i>Prospects for the Development of Railway Transport Corridors Between Europe and Asia and the Methodology for their Multicriteria Evaluation</i> <i>Bykov Yu.A., Buchkin V.A., Fadeeva V.A., Guskova M.F.</i>	65
<i>Mobile Authentication over Hand-Waving</i> <i>Fillina A.N., Kogos K.G.</i>	68
<i>Providing a Synergetic Effect in the Quality Improvement of the Railway Automatics System, MPC EbiLock 950, Maintenance</i> <i>Likhota R., Lontsikh P., Drolova E., Karaseva V., Lvshitz I.</i>	74